

Amendments to the Drawings:

The attached sheet of drawings includes changes to Figure 4. This sheet replaced the original sheet that contained Figure 4. In Figure 4, the annotation "PRIOR ART" has been added.

Attachment: Replacement sheet
Annotated Sheet Showing Changes

Applicant respectfully requests reconsideration and withdrawal of the rejections of the claims in view of the foregoing amendments and following remarks.

REMARKS

A. Status of the Specification and Explanation of Amendments

Applicant has amended paragraphs [0010] and [0073] to correct two minor typographical errors, as shown on page 8 of this response. Applicant respectfully submits that no new matter has been added by these amendments.

B. Status of the Drawings

Applicant has amended Figure 4 to include the label “PRIOR ART”. A copy of the amended drawing and an annotated version of the drawing are attached as an appendix to this paper. No new matter has been added by this amendment.

C. Status of Claims and Explanation of Amendments

Claims 1-14 are currently pending. The Office Action has objected to claims 5 and 14 because of certain informalities. As requested by the Office Action, Applicant has amended claims 5 and 14 to remove these informalities.

Claims 1-14 have been rejected under 35 U.S.C. §102(b) as allegedly being anticipated by U.S. Patent No. 6,260,972 to Robinson et al. (“Robinson”).

In this paper, Applicant has amended claims 1, 2, 10, 12, and 13 in order to further clarify the invention. Independent claims 1, 10, 12, and 13 now recite, inter alia, a light source using direct current voltage. Specifically, claim 1 recites “a discharge gas exciting arc tube of a direct current drive type”, while claims 10, 12, and 13 recite “a light source” where “by applying a direct current voltage a discharge gas is excited and light is

emitted continuously from an area being closer to the cathode electrode than the anode electrode”. Support for these amendments is found throughout Applicant’s specification (e.g., paragraphs [0023] and [0024]).

Claim 2 has been amended to recite, inter alia, a “light intensity distribution in which light intensity in a substantially central portion thereof is highest and light intensity gradually becomes low toward a peripheral portion thereof”. Support for this amendment is found on in Figure 3b and in paragraph [0074] of Applicant’s specification.

Claim 13 has been amended to recite, inter alia, “wave plates which rotate the polarization direction of the transmitted light substantially 90 degrees, and are provided such that the polarization direction of the second polarized light from the first polarization beam splitters and the polarization direction of the first polarized light from the second polarization beam splitters are aligned with each other.” Support for this amendment is found, for example, in paragraph [0058] of Applicant’s specification.

No new matter has been added by these amendments to the claims.

C. Applicant’s Claims Are Not Anticipated by Robinson

Applicant respectfully traverses the rejection of claims 1-14 under 35 U.S.C. §102(b) as allegedly being anticipated by Robinson. Briefly, Robinson fails to teach, disclose, or suggest all of the claim elements in Applicant’s amended independent claims 1, 10, 12, and 13 or the claims that depend therefrom. Accordingly, the rejection of claims 1-14 should be withdrawn. MPEP §2131.

1. Robinson Fails to Teach, Disclose, or Suggest a
“Light Source” As recited in Applicant’s Claims

Robinson is directed to liquid crystal projectors. According to Robinson, the system

comprises a short arc Metal-Halide lamp 4 directed onto a first lenslet array 6 by a parabolic reflector 8. Each lenslet 10 of the first lenslet array 6 directs a separate image of the source onto a corresponding lenslet 12 in a second lenslet array 14. [col. 3, lines 39-43].

Applicant notes that while Robinson’s device comprises a “short arc Metal-Halide lamp 4”, there is no teaching, express or otherwise, that the lamp is a “light source...of direct drive type” as recited in Applicant’s independent claims 1 and 10, or a “light source” that operates “by applying a direct current voltage” as recited in Applicant’s independent claims 12 and 13.

Furthermore, as noted in Applicant’s specification and recited in Applicant’s claims, a light source of the direct current drive type has a light emission area that is closer to the cathode electrode than the anode electrode. This causes an improvement in the light transfer efficiency of a illumination optical system with a polarization conversion element. Applicant, upon review of Robinson, respectfully asserts that such an effect is not obtained (or even recognized) by Robinson.

Accordingly, because not all claim elements are taught or suggested, the rejection of claims 1-14 under 35 U.S.C. §102(b) as allegedly being anticipated over Robinson should be withdrawn.

Reconsideration and withdrawal of the rejections of these claims are respectfully requested.

CONCLUSION

Based on the foregoing amendments and remarks, Applicants respectfully request reconsideration and withdrawal of the rejection of claims and allowance of this application.

AUTHORIZATION

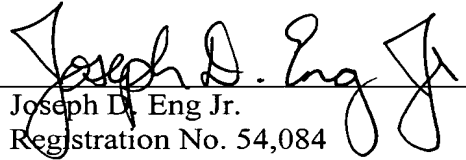
The Commissioner is hereby authorized to charge any additional fees which may be required for consideration of this Amendment to Deposit Account No. 13-4500, Order No. 1232-5313. A DUPLICATE OF THIS DOCUMENT IS ATTACHED.

In the event that an extension of time is required, or which may be required in addition to that requested in a petition for an extension of time, the Commissioner is requested to grant a petition for that extension of time which is required to make this response timely and is hereby authorized to charge any fee for such an extension of time or credit any overpayment for an extension of time to Deposit Account No. 13-4500, Order No. 1232-5313. A DUPLICATE OF THIS DOCUMENT IS ATTACHED.

Respectfully submitted,
MORGAN & FINNEGAN, L.L.P.

Dated: March 10, 2005

By: _____


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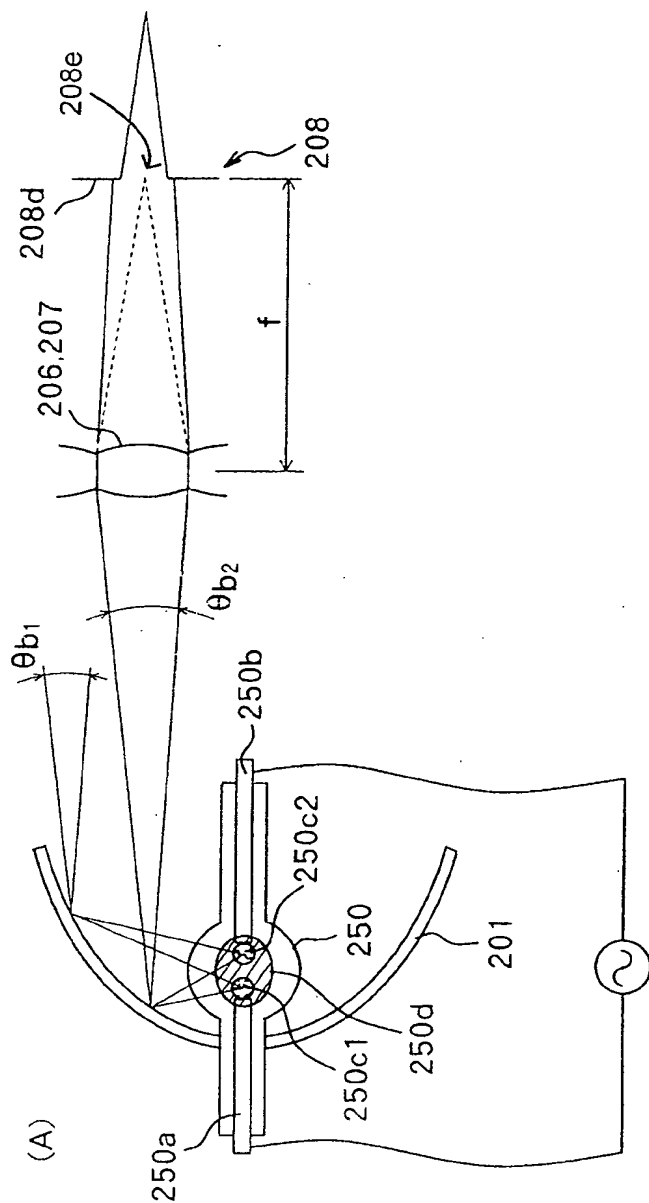
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APPENDIX

REPLACEMENT DRAWING FOR FIGURE 4

ANNOTATED DRAWING FOR FIGURE 4

FIG. 4



(PRIOR ART)

